

Key Benefits:

On-Demand Intelligence – Add applications intelligence without reconfiguring the network or the application—and without increasing operating costs.

High Performance – Manage the most demanding applications with industry-leading layer 7 connection management and SSL processing power.

Device Consolidation – Reduce the number of servers and Application Delivery Controllers along with power, space, cooling, and management requirements.

Ultimate Reliability – Take the ADN infrastructure from highly available to *always available* with redundancy at both the chassis and blade levels.

VIPRION

The On-Demand Application Delivery Controller

Your organization's growing infrastructure puts more pressure on the network—from rising numbers of users to data center consolidation to the deployment of more feature-rich applications. Scaling the Application Delivery Network (ADN) to meet these evolving needs means increased operational cost and complexity. The resulting strain on resources can limit your organization's ability to react quickly to developing needs.

VIPRION™ is a single, powerful Application Delivery Controller (ADC) with modular performance blades you can add or remove with no disruption to your applications. Instead of adding more devices in the network and segmenting applications, you can simply add more power to your existing infrastructure as needs arise. VIPRION gives you the scalability you need to establish a solid and sustainable ADN growth strategy.

Increase Intelligence, Not Operating Costs

As your growing infrastructure requires more processing power for layer 7 processing, SSL, compression, and more, you can simply add a blade to the VIPRION chassis and it will start processing traffic automatically. Whether you're using one blade or four, VIPRION remains one device with fixed management costs.

Simplify Your Network

VIPRION can help you simplify your network by offloading servers and consolidating devices, saving management costs as well as power, space, and cooling in the datacenter.

With VIPRION's massive performance and scalability, you can reduce the number of Application Delivery Controllers you need to deliver even the most demanding applications. By offloading computationally intense processes, VIPRION can significantly reduce the number of application servers needed. VIPRION includes:

SSL hardware acceleration – Offloads costly SSL encryption. Accelerates key exchange and bulk encryption to provide best-in-market SSL performance capable of 9 Gbps throughput and more than 50,000 TPS per blade.

HTTP compression – Enables you to cost effectively offload traffic compression processing from your servers. Improves page load times and reduces bandwidth utilization with up to 4.5 Gbps throughput per blade.

OneConnect™ connection pooling – Aggregates millions of TCP requests into hundreds of server-side connections. Increases server capacity by up to 60 percent and ensures requests are handled efficiently by the back-end system.





Maximize Large-Scale Application Performance

With its industry-leading layer 7 and SSL performance, VIPRION can manage the most demanding applications, offload the servers, and consolidate the Application Delivery Network. A fully loaded VIPRION system with four blades delivers performance that is orders of magnitude greater than anything else you will find on the market.

Achieve Ultimate Reliability

In a VIPRION system with multiple blades, you can remove a blade without disruption. The other blades will instantly take over the processing load. You can also deploy VIPRION in an active/standby configuration to add another level of redundancy. The chassis is built with redundant power supplies and field swappable components. This multi-layered redundancy significantly reduces the possibility of downtime.

Massive Application Performance

A VIPRION system with four blades provides:

- 1 million layer 4 connections per second
- 36 Gbps of layer 4 or layer 7 throughput
- 3.2 million layer 7 requests per second
- 200,000 SSL transactions per second



VIPRION Performance Blades can be added or removed without disruption. For more processing power, simply add a blade and it starts processing traffic automatically. In a VIPRION system with multiple blades, you can remove a blade and the others instantly take over the processing load.





The VIPRION chassis has field replaceable parts and redundant power supplies, significantly reducing the possibility of downtime.

The Advantages of VIPRION Technology

With VIPRION, your organization will benefit from several patented hardware and software innovations that offer unmatched capabilities.

Clustered Multiprocessing Eliminates Disruptions

Each VIPRION Performance Blade 100 has four processor cores, and the VIPRION chassis can support up to four blades. Using clustered multiprocessing, VIPRION creates a virtualized processing fabric to efficiently use these resources. When you add a new blade, the four additional processor cores seamlessly join the system. In the unlikely event of a failure, you can remove the blade from the system without disruption.



Virtualized Processing Fabric Shares the Load Across Blades

Using custom disaggregation ASICs and advanced software, VIPRION shares the processing load not just within a blade, but across the entire chassis.

The physical interfaces are fully meshed. Each VIPRION Performance Blade has 22 Ethernet ports: eight copper, twelve 1G fiber, and two 10G fiber. Any port on any blade can be used for any application so the system can be wired for redundancy and simplicity.

Clustered Management Cuts Administration Time

Spend less time managing your Application Delivery Network. To VIPRION administrators, the unit looks like a single Application Delivery Controller. One blade is automatically selected as the "primary" and all settings and controls are mirrored to the other blades. When a new blade is plugged in, it will install the firmware version from the primary blade, copy all of its settings, and begin processing traffic within minutes.

SuperVIP Simplifies the Network

Rather than requiring that a single, demanding application be segmented, VIPRION uses the new SuperVIP[™]. This is a virtual IP that can span multiple blades within the VIPRION system. A demanding application will use SuperVIP to harness the processing power of all the blades in the system.

TMOS Delivers Performance and Flexibility

At the heart of VIPRION is a revolutionary architecture called TMOS[™] that provides a unified system for optimal application delivery, giving you total vision, flexibility, and control across all services. TMOS empowers VIPRION to intelligently adapt to the diverse and evolving requirements of applications and networks.

Ordering Information

The VIPRION chassis includes BIG-IP[®] Local Traffic Manager™. Options include:

• Performance Blade 100 – One blade is required.

• Performance Extreme Pack – Includes SSL Accelerator[™], Intelligent Compression[™], Fast Cache[™], Advanced Client Authentication[™], and IPv6 Gateway[™].

Physical Specifications



VIPRION Performance Blade 100

Processors: 2 Dual Core processors

Memory: 8 GB

Hard Drive Capacity: 160 GB ATA Hard Drive 8 GB Compact Flash

Traffic Throughput: 10 Gbps L4, 10 Gbps L7, 4.5 Gbps Max Compression Included SSL TPS/Max TPS/Bulk Crypto: 400/50,000/9 Gbps

Network Interfaces:

1 – 10/100/1000 Ethernet Management Port
 8 – 10/100/1000 Copper ports
 12 – 1000BASE-X SFP Fiber ports

 4 SFP LX Transceivers (LC Connector) included
 2 – 10 Gigabit XFP ports (XFPs sold separately)

Note: Only optics provided by F5 are supported.

Maximum Power Consumption: 600W

Maximum Heat Generated: 2046 BTU/hour

Weight: 14.5 lbs.



VIPRION Chassis

Dimensions: 12.2"H x 17.4"W x 21"D rack-mount chassis

7 Rack Units

Weight: 83 lbs. (2 power supplies, 1 fan tray, 3 blanks)

Power Supply: 4 – 90VAC to 264VAC AUTO ranging 1200W for low line input (90-140VAC) 2000W for high line input (180-264VAC)

Input Voltage and Current: 90-264 VAC (AC)

Operating Temperature: 23° to 104° F (-5° to 40° C) per Telcordia GR-63-CORE 5.1.1 and 5.1.2

Relative Humidity: 10 to 90% @ 40° C, per Telcordia GR-63-CORE 5.1.1 and 5.1.2

Safety Agency Approval: UL 60950 (UL1950-3) CSA-C22.2 No. 60950-00 (Bi-national standard with UL 60950) CB TEST CERTIFICATION TO IEC 950 EN 60950

Electromagnetic Emissions Certifications: EN55022 1998 Class A EN55024 1998 Class A FCC Part 15B Class A VCCI Class A



F5 Networks, Inc. Corporate Headquarters

401 Elliott Avenue West Seattle, WA 98119 (206) 272-5555 Phone (888) 88BIGIP Toll-free (206) 272-5556 Fax www.f5.com info@f5.com F5 Networks Asia-Pacific

+65-6533-6103 Phone +65-6533-6106 Fax info.asia@f5.com F5 Networks Ltd. Europe/Middle-East/Africa

+44 (0) 1932 582 000 Phone +44 (0) 1932 582 001 Fax emeainfo@f5.com F5 Networks Japan K.K.

+81-3-5114-3200 Phone +81-3-5114-3201 Fax info@f5networks.co.jp